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MMMMM LLLLL PPPPP L	יידיי יידיי אייטעע s	EEDEE AAAAA TTSTA G	TTMTT DDDDDE EEDEE T	AAAAS IIIIII LLLLL S	Y Y T Y L V V V V V P P A P P A P P A P P A P P P A P P P A P P P A P P P A P P P A P P P A P P P A P P P A P P P A P P P A P P P A P P P A P P P A P P P A P P P A P P P P A P P P P A P P P P A P P P P A P P P P A P P P P A P P P P A P P P P A P P P P P A P P P P P A P P P P P A P	GGGGG AAAAA GGNGT P	NNNNT AAAAA LLLLL A	A A A A Y Y Y Y Y Y Y Y Y Y Y Y Y Y Y Y	QQPQN VVVVV SSSSA.V	DDEDE SSSSS DDDDD A	LLLL NNNNN VVVV V	. ГГГГ ННННН ННННН И	VVVV VVVV TTSTS	EEEEE VVVVV AAAAA E	WT-ROS SYNROS ROS-AR MUC-R WT-ROS SYNROS ROS-AR MUC-R WT-ROS SYNROS ROS-R ROS-AR MUC-R
L L L	S S S N	G N G <u>N</u>	T T T	S S S T	A V A <u>A</u>	P P P	A Q A <u>A</u>	S P S P	V A V <u>V</u>	A A A <u>V</u>	V A V <u>V</u>	N V N P	V V V	E E E	SYNROS ROS-R ROS-AI MUC-R
K K K K	Q Q Q Q <u>P</u>	K K K K	P P P P	A A A A	V V V	\$ \$ \$ \$ \$ \$ \$ \$	V V V V	R R R R	K K K K	S S S S S S	V V V V	00000	D D D D	0 5 0	WT-ROS SYNROS ROS-R ROS-AI MUC-R
Н Н Q Н Q	I I I I	V V T V	CCCCC	L L L	E E E E	00000	G G G G	G G G G	S N S T	F F F	K K K K	ខេត្តស	L L L L	K K K K	WT-RO SYNRO ROS-R ROS-A MUC-R
R R R R	н н н н	L L L L	T M T M	T T T T	Н Н Н Н.	H H H H	s s s <u>n</u>	M M L M	T T S T	P P P P	E E E E	E E E E	Y Y Y Y	R R R R	WT-RO SYNRO ROS-R ROS-A MUC-R
E E E D	К К К К	W W W W	D D D D	L L L L	P P P Q P	V V T V A	D D D D	Y Y Y Y	P P P P	M M M M M	V V V	A A A A	P P P P	A A A A	WT-RC SYNRO ROS-F ROS-F MUC-F
Y Y Y Y Y	A A A A	EEEE	A A A A	R R R R	ន្ទន្ទន	R R R R	L L L L	A A A A	K K K K	E E E E	M M M M M	G G G G	L L L L	G G G G	ROS-1
00000	R R R R	R R R R	K K K K	A R A R	N N G N R	R R R G	P G K	K	K	K	R	K	v		WT-ROS-1 ROS-1 ROS-1 MUC-1

FIG. 1(A)

GCGGATCCCC	GGGT ATGACT	GAGACTGCTT	ACGGTAACGC
TCAGGATCTT	CTTGTTGAGC	TTACTGCTGA	TATCGTTGCT
GCTTACGTTT	CTAACCACGT	TGTTCCTGTT	ACTGAGCTTC
CTGGACTTAT	CTCTGATGTT	CATACTGCAC	TTTCTGGAAC
ATCTGCTCCT	GCTTCTGTTG	CTGTTAACGT	TGAGAAGCAG
AAGCCTGCTG	TTTCTGTTCG	TAAGTCTGTT	CAGGATGATC
ATATCGTTTG	TTTGGAGTGT	GGTGGTTCTT	TCAAGTCTCT
CAAGCGTCAC	CTTACTACTC	ATCACTCTAT	GACTCCAGAG
GAGTATAGAG	AGAAGTGGGA	TCTTCCTGTT	GATTACCCTA
TGGTTGCTCC	TGCTTACGCT	GAGGCTCGTT	CTCGTCTCGC
TAAGGAGATG	GGTCTCGGTC	AGCGTCGTAA	GGCTAACCGT
C <i>CAAAAAAGA</i>	AGCGTAAGGT	CTGAGAGCTC	GC

FIG. 1(B)

M T E T A Y G N A Q D L L V E ATG ACN GAR ACN GCN TAY GGN AAY GCN CAR GAY YTN YTN GTN GAR

L T A D I V A A Y V S N H V V YTN ACN GCN GAY ATH GTN GCN GCN TAY GTN WSN AAY CAY GTN GTN

L S G T S A P A S V A V N V E YTN WSN GGN ACN WSN GCN CCN GCN WSN GTN GCN GTN AAY GTN GAR

K Q K P A V S V R K S V Q D D AAR CAR AAR CCN GCN GTN WSN GTN MGN AAR WSN GTN CAR GAY GAY

H I V C L E C G G S F K S L K
CAY ATH GTN TGY YTN GAR TGY GGN GGN WSN TTY AAR WSN YTN AAR

R H L T T H H S M T P E E Y R MGN CAY YTN ACN ACN CAY CAY WSN ATG ACN CCN GAR GAR TAY MGN

Q R R K A N R P K K R K V CAR MGN MGN AAR GCN AAY MGN CCN AAR AAR AAR MGN AAR GTN

ROS Inverted Repeat
DNA Binding Sites (Operator sequences)

TATATTTCAA-TTTTA-TTGTAATATA

virC/virD

**** ** ** *** *** **

TATAATTAAAATATTAACTGTCGCATT

ipt

FIG. 1(D)

Comparison of ROS DNA Binding Site (Operator) Sequences

VirC/VirD

TATATTTCAA

TATATTACAA

ipt

TATAATTAAA

AATGCGACAG

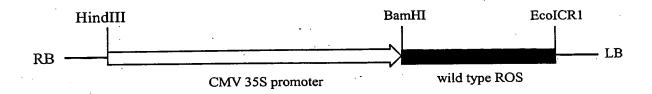
TATAHTtCAA

a g gaa g

Consensus

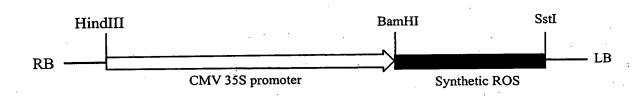
WATDHWKMAR

FIG. 1(E)



p74-107

FIG.2(A)



p74-313

FIG.2(B)

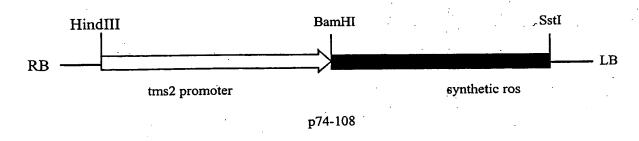


FIG.2(C)

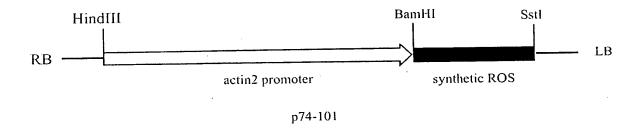


FIG.2(D)

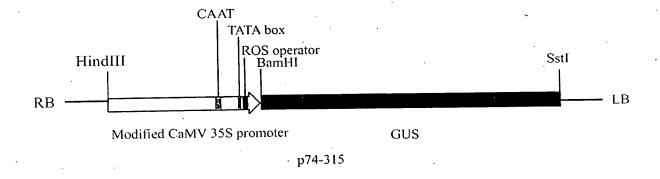


FIG. 3(A)

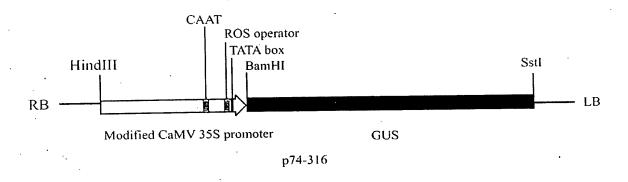


FIG. 3(B)

7/25

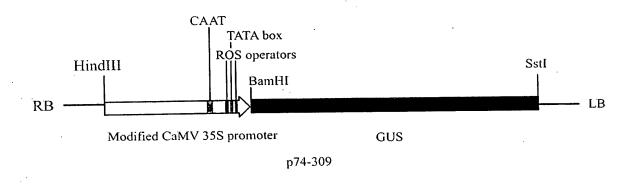


FIG. 3(C)

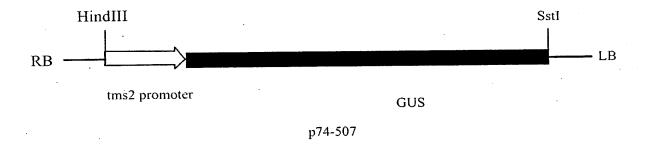


FIG. 4(A)

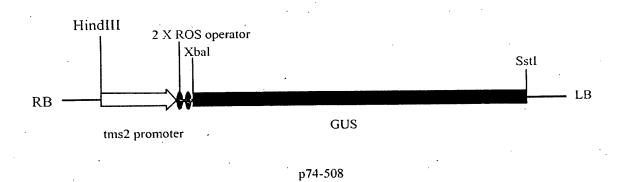


FIG. 4(B)

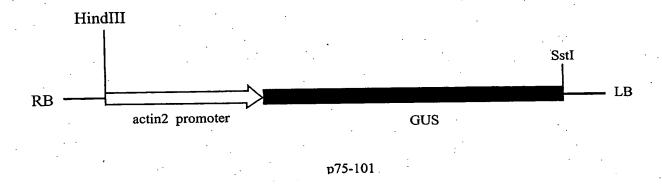
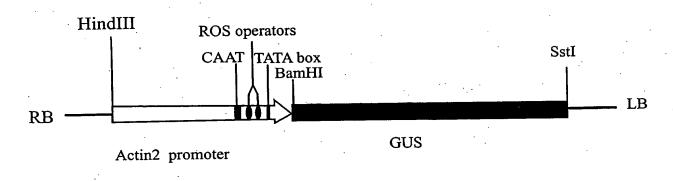


FIG. 5(A)



p74-501

FIG. 5(B)

Reporter Construct

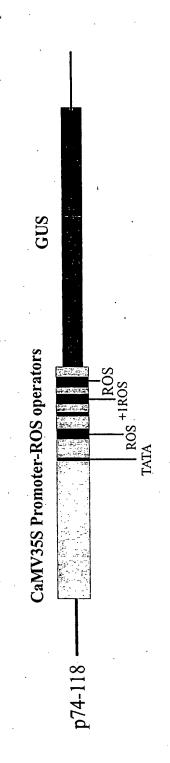


FIG. 5(C)

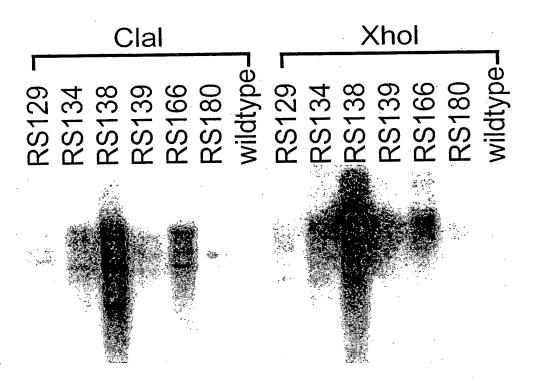


FIG. 6 (A)

p74-101

91	93	121
RS	RS	RS

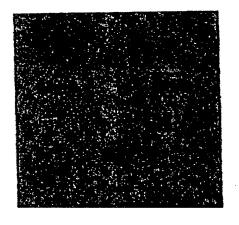


FIG. 6(B)

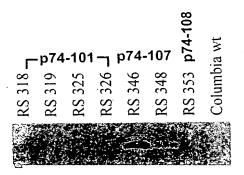


FIG. 7(A)

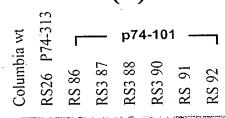




FIG. 7(B)

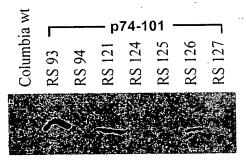


FIG. 7(C)

Columbia wt

pBI121



p74-501

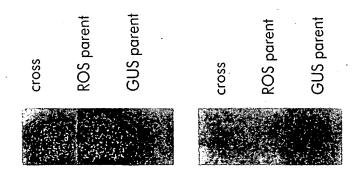


buffer

GUS assay

cross ROS parent GUS parent

FIG. 9(A)

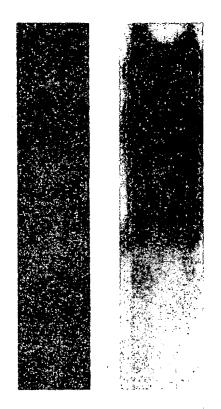


ROS probe

GUS probe

Northern blots

FIG. 9(B)



GUS probe ROS probe Southern blot

Figure 9(C)